CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY, VOLUME 49

AUTHOR INDEX

Under each name are listed, in chronological order of publication, all articles in which an author has participated.

Acheampong-Mensah, D. K.
Dietary DL-methionine and rat liver arginase activity. D. K. Acheampong-Mensah and D. C. Hill, 84.

Ahmad, S.
Comparative metabolism of chlorobenzilate, chloropropylate, and bromopropylate acaricides by rat hepatic enzymes. C. O. Knowles and S. Ahmad, 590.

Åkerblom, H. K.
Immunoreactive rat growth hormone: physiological variations in serum and urine. G. L. Garay, J. M. Martin, and H. K. Åkerblom, 727.

Ali, M. A.
Electroretinographic determination of spectral sensitivity in albino and pigmented brook trout (*Salvelinus fontinalis*, Mitchill). H. Kobayashi and M. A. Ali, 1030.

Allen, R. D.
Single influx rate for $^{42}K^+$ in the single fiber of the barnacle. R. D. Allen and J. A. M. Hinke, 624.
Na^+–Li^+ exchange in single muscle fibers of the giant barnacle. R. D. Allen and J. A. M. Hinke, 862.

Amir-Jahed, A. K.
Effects of cardiac glycosides injected into the atrioventricular node artery of the dog. R. A. Nadeau, A. K. Amir-Jahed, P. Gauthier, and G. A. Porlier, 113.
Perfusion of the anterior septal artery in the canine heart. A. K. Amir-Jahed and T. A. Fakouhi, 483.

Anderson, D. E.
Rheological properties of blood from diabetic Wistar rats. W. Zingg, R. B. Wilson, C. D. Morgan, and D. E. Anderson, 927.

Anthonisen, N. R.
The effect of added external resistance on regional pulmonary filling and emptying sequences. R. R. Martin, J. E. Wilson, W. R. D. Ross, and N. R. Anthonisen, 406.

Arakawa, S. M.
Amino acid imbalance and diet preference in the hypothalamic–hyperphagic rat. S. M. Arakawa, B. R. Standal, and J. R. Beaton, 752.

Ayachi, S.
Dose–effect relationship in desoxycorticosterone hypertension: reduced sensitivity in adrenalectomized rats and its possible significance to the etiology of adrenal-regeneration hypertension. C. E. Hall and S. Ayachi, 139.

Ayitey-Smith, E.
Responses to noradrenaline and potassium, and disposition of noradrenaline in aortic strips of desoxycorticosterone acetate — NaCl hypertensive rabbits. S. Kalsner, E. Ayitey-Smith, and G. M. Ling, 666.

Balasubramanian, V.
Biochemical basis of heart function. III. Influence of isoproterenol on the norepinephrine stores in the rat heart. N. S. Dhalla, V. Bakasubramanian, and J. Goldman, 302.

Bannard, R. A. B.
Detection and analysis of Parpanit in blood by gas–liquid chromatography. A. A. Casselman and R. A. B. Bannard, 93.

Barak, A. J.
A method for studying the uptake of creatine by a perfused hind limb preparation. A. J. Barak, H. C. Beckenhauer, and D. J. Tuma, 612.

Barboriak, J. J.
Effects of propranolol on several physiological responses during orthostatic and exercise stress in healthy male subjects. M. G. Maksud, F. E. Tristani, K. D. Coutts, J. J. Barboriak, and L. H. Hamilton, 867.

Beare-Rogers, J. L.
Time sequence of liver phospholipid alterations during deprivation of dietary choline. J. L. Beare-Rogers, 171.
Beaton, J. R.
Amino acid imbalance and diet preference in the hypothalamic–hyperphagic rat. S. M. Arakawa, B. R. Standal, and J. R. Beaton, 752.
Beck, J. C.
Factors affecting the inactivation of insulin-^{125}I by rat adipose tissue. A. Fessler, B. Rubenstein, D. Rubinstein, and J. C. Beck, 457.
Beck, L.
Further evidence for 'active' reflex vasodilatation. D. G. Wyse, L. Beck, T. F. Burks, and C. T. Spalding, 147.
Significance of catecholamine-induced ganglionic blockade and of reflex inhibition of adrenergic discharge at a peripheral locus as mechanisms producing reflex vasodilatation. A. A. Pollard and L. Beck, 688.
Beckenhauer, H. C.
A method for studying the uptake of creatine by a perfused hind limb preparation. A. J. Barak, H. C. Beckenhauer, and D. J. Tuma, 612.
Belton, P.
The effects of pharmacological agents on the electrical responses of cells of *Nitella flexilis*. P. Belton and C. Van Netten, 824.
Benfey, B. G.
Effect of phenylephrine on cardiac contractility and adenyl cyclase activity. B. G. Benfey and T. Carolin, 508.
Beznak, M.
Fluid and electrolyte shifts relating cardiac hypertrophy with normal growth. D. M. Horwood and M. Beznak, 951.
Bhatnagar, S. P.
The metabolism of chlorpromazine by developing rabbit liver. S. P. Bhatnagar, 649.
Black, W. D.
A pharmacodynamic study of DDT in rabbits following acute intravenous administration. W. D. Black and D. J. Ecobichon, 45.
Bolan, J.
Accumulation of adenosine 3′,5′-monophosphate and relaxation in the rat uterus *in vitro*. I. Polacek, J. Bolan, and E. E. Daniel, 999.
Bolter, C. P.
The effect of cardiac pacing at high rates on plasma enzyme levels in the anesthetized dog. C. P. Bolter and J. B. Critz, 847.
Bonn, G.
Continuous measurement of variations of P_{CO_2} in peritoneal fluid. P. Harichaux, M. Freville, J. Lienard, J. P. Denoeux, and G. Bonn, 621.
Bonnardeaux, J. L.
A comparison of the effects of three organic solvents: dimethyl sulfoxide, formamide, and propylene glycol, on spontaneous activity of isolated smooth muscle. J. L. Bonnardeaux, 632.
Bouchard, R.
Fatty acid composition of carcass, heart, liver, and blood lipids in young lambs fed diets containing vegetable or animal fats. R. Bouchard and G. J. Brisson, 427.
Boucher, R.
The renin–angiotensin system in newborn dogs. P. Granger, J. M. Rojo-Ortega, S. Casado Pérez, R. Boucher, and J. Genest, 134.
Boutin, D.
Human serum pseudocholinesterases: molecular weight estimation of a subunit structure. D. Boutin and J. Brodeur, 777.
Bridgen, M. L.
The extracellular space of the single fiber from the giant barnacle. M. L. Bridgen, A. W. Spira, and J. A. M. Hinke, 801.
Brisson, G. J.
Fatty acid composition of carcass, heart, liver, and blood lipids in young lambs fed diets containing vegetable or animal fats. R. Bouchard and G. J. Brisson, 427.
Brisson, G. R.
Insulinotropic effect and possible mode of action of a new potent sulfonylurea (BS-4231). G. R. Brisson and W. J. Malaisse, 536.

Brodeur, J.
Effect of splenectomy on the activity of drug-metabolizing enzymes in the liver of rats. J. Brodeur and C. Marchand, 161.
Human serum pseudocholinesterases: molecular weight estimation of a subunit structure. D. Boutin and J. Brodeur, 777.
Brown, J. C.
The further purification of motilin, a gastric motor activity stimulating polypeptide from the mucosa of the small intestine of hogs. J. C. Brown, V. Mutt, and J. R. Dryburgh, 399.
Brown, R. G.
Collagen metabolism in bone and carrageenin granuloma by sulfate-deprived and sulfate-supplemented rats. R. G. Brown and E. P. Liddy, 1008.
Buchanan-Smith, J. G.
Tissue selenium concentrations in sheep fed a purified diet. J. G. Buchanan-Smith, B. A. Sharp, and A. D. Tillman, 619.
Bukowiecki, L.
Decreased half-life of some mitochondrial proteins in skeletal muscle and brown adipose tissue of cold-acclimated rats. L. Bukowiecki and J. Himms-Hagen, 1015.
Burks, T. F.
Further evidence for 'active' reflex vasodilatation. D. G. Wyse, L. Beck, T. F. Burks, and C. T. Spalding, 147.
Caillé, J. P.
Résistance électrique de la paroi d'une microélectrode. J. P. Caillé et S. Gagné, 783.
Campling, B.
Physical characteristics of red cells collected from the spleen. A. C. Groom, S. H. Song, P. Lim, and B. Campling, 1092.
Carolin, T.
Effect of phenylephrine on cardiac contractility and adenyl cyclase activity. B. G. Benfey and T. Carolin, 508.
Casado Perez, S.
The renin–angiotensin system in newborn dogs. P. Granger, J. M. Rojo-Ortega, S. Casado Pérez, R. Boucher, and J. Genest, 134.
Casselman, A. A.
Detection and analysis of Parpanit in blood by gas–liquid chromatography. A. A. Casselman and R. A. B. Bannard, 93.
Cenedella, R. J.
The effect of cold and prostaglandin E_1 on lipid mobilization in the chicken. W. D. Wagner, R. A. Peterson, and R. J. Cenedella, 394.
Chan, H.
Measurement of cardiac output in rats by ^{125}I dilution. R. T. Cotton, F. L. Mugashe, B. L. Gallie, H. Chan, I. H. Koven, and W. R. Drucker, 1019.
Chou, S. T.
Effect of riboflavin deficiency on the metabolism of oxypurines in chicks. S. T. Chou, 1059.
Chow, K. L.
Response of caudal photoreceptor of crayfish to continuous and intermittent photic stimulation. C. Galeano and K. L. Chow, 699.
Code, C. F.
Regional differences in rates of insorption of sodium and water from the human large intestine. G. J. Devroede, S. F. Phillips, C. F. Code, and J. F. Lind, 1023.
Cole, C. H.
A comparison of Na^+ activation of ATPase in the red cell, renal cortex, and renal medulla. C. H. Cole and J. H. Dirks, 63.
Conrad, R. G.
Circulating adrenocorticotropin (ACTH) as a controlled variable in the regulation of ACTH secretion. J. Kraicer and R. G. Conrad, 744.
Duration of action of two "long-acting" adrenocorticotropins preparations in the rat. J. Kraicer and R. G. Conrad, 774.
Copp, D. H.
Inhibitory effect of salmon and other calcitonins on calcium release from mouse bone *in vitro*. C. Minkin, J. J. Reynolds, and D. H. Copp, 263.
Cordeau, J. P.
Excitation and prolonged waking produced by catecholamines injected into the ventricular system of cats. J. P. Cordeau, J. de Champlain, and B. Jacks, 627.

Corning, W. C.
Supraesophageal ganglia influences on *Limulus* heart rhythm: confirmatory evidence. W. C. Corning, R. Von Burg, and R. Lahue, 387.
The effects of drugs on *Limulus* cardioregulators. R. Von Burg and W. C. Corning, 1044.
Côté, M. G.
Biochemical and morphological parameters of taurolithocholate-induced cholestasis. B. G. Priestly, M. G. Côté, and G. L. Plaa, 1078.
Cotton, R. T.
Measurement of cardiac output in rats by ^{125}I dilution. R. T. Cotton, F. L. Mugashe, B. L. Gallie, H. Chan, I. H. Koven, and W. R. Drucker, 1019.
Coutts, K. D.
Effects of propranolol on several physiological responses during orthostatic and exercise stress in healthy male subjects. M. G. Maksud, F. E. Tristani, K. D. Coutts, J. J. Barboriak, and L. H. Hamilton, 867.
Critz, J. B.
The effect of cardiac pacing at high rates on plasma enzyme levels in the anesthetized dog. C. P. Bolter and J. B. Critz, 847.
Daniel, E. E.
Effects of inhibitors of active transport on ^{22}Na and ^{42}K movements and on nucleotide levels in rat uteri at 25 °C. E. E. Daniel and K. Robinson, 178.
Effects of inhibitors of metabolism on adenine nucleotides and on ^{22}Na and ^{42}K and net movements in rat uteri at 25 °C. E. E. Daniel and K. Robinson, 205.
The effect of temperature on sodium movements in rat uteri and a model for control of their ion content. E. E. Daniel, and K. Robinson, 240.
Effect of α- and β-adrenergic stimulation on the uterine motility and adenosine 3′,5′-monophosphate level. I. Polacek and E. E. Daniel, 988.
Accumulation of adenosine 3′,5′-monophosphate and relaxation in the rat uterus *in vitro*. I. Polacek, J. Bolan, and E. E. Daniel, 999.
Davies, M. I.
Effect of dietary calcium, phosphorus, and vitamin D_3 on alkaline phosphatase activity of intestinal mucosa of chicks. I. Motzok, G. M. Ritcey, and M. I. Davies, 338.
Davies, P.
Carnitine enhance the effect of norepinephrine on oxygen consumption in rats and mice. P. Hahn, J. Skala, and P. Davies, 853.
de Boer, J.
Partial splenectomy in dogs: an experimental tool for studies of the spleen. J. de Boer and H. G. Downie, 1110.
de Ceretti, E. R. P.
Measurement of input impedance and cytoplasmic resistivity with a single microelectrode. O. F. Schanne and E. R. P. de Ceretti, 713.
de Champlain, J.
Supersensitivity of the isolated rat heart after chemical sympathectomy with 6-hydroxydopamine. R. A. Nadeau, J. de Champlain, and G. M. Tremblay, 36.
Degeneration and regrowth of adrenergic nerve fibers in the rat peripheral tissues after 6-hydroxydopamine. J. de Champlain, 345.
Excitation and prolonged waking produced by catecholamines injected into the ventricular system of cats. J. P. Cordeau, J. de Champlain, and B. Jacks, 627.
DeFelice, L. J.
Electrical resistance and volume flow in glass microelectrodes. D. R. Firth and L. J. DeFelice, 436.
Dellow, P. G.
The oral absorption of water. T. S. Miles and P. G. Dellow, 796.
Denoeux, J. P.
Continuous measurement of variations of P_{CO_2} in peritoneal fluid. P. Harichaux, M. Freville, J. Lienard, J. P. Denoeux, and G. Bonn, 621.
Depocas, F.
Sea water drinking and water flux in starved and in fed Harbor seals, *Phoca vitulina*. F. Depocas, J. S. Hart, and H. D. Fisher, 53.
Derry, D. M.
Effect of isoproterenol on brown and white fat of the adult rat. D. M. Derry, J. Ranson, and E. Morrow, 8.
Deslauriers, R.
Caloric uptake and cold resistance in cold-acclimated rats fed commercial chow or semi-purified diet. R. Deslauriers, J. Zoami, R. S. McCullough, and O. Héroux, 707.

Devroede, G. J.
Regional differences in rates of insorption of sodium and water from the human large intestine. G. J. Devroede, S. F. Phillips, C. F. Code, and J. F. Lind, 1023.
Dhalla, N. S.
Biochemical basis of heart function. III. Influence of isoproterenol on the norepinephrine stores in the rat heart. N. S. Dhalla, V. Bakasubramanian, and J. Goldman, 302.
Biochemical basis of heart function. IV. Energy metabolism and calcium transport in hearts of vitamin E deficient rats. M. Fedelesova, P. V. Sulakhe, J. C. Yates, and N. S. Dhalla, 909.
Dirks, J. H.
A comparison of Na^+ activation of ATPase in the red cell, renal cortex, and renal medulla. C. H. Cole and J. H. Dirks, 63.
Downie, H. G.
Partial splenectomy in dogs: an experimental tool for studies of the spleen. J. de Boer and H. G. Downie, 1110.
Drucker, W. R.
Measurement of cardiac output in rats by ^{125}I dilution. R. T. Cotton, F. L. Mugashe, B. L. Gallie, H. Chan, I. H. Koven, and W. R. Drucker, 1019.
Dryburgh, J. R.
The further purification of motilin, a gastric motor activity stimulating polypeptide from the mucosa of the small intestine of hogs. J. C. Brown, V. Mutt, and J. R. Dryburgh, 399.
Ducker, A. J.
The excretion of catecholamines in rats during acute and chronic exposure to altitude. W. S. Myles and A. J. Ducker, 721.
Dunn, R. B.
Lactate and pyruvate levels in brain and skeletal muscle during hyperthermia in dogs. R. B. Dunn and F. Lioy, 520.
Ecobichon, D. J.
A pharmacodynamic study of DDT in rabbits following acute intravenous administration. W. D. Black and D. J. Ecobichon, 45.
The acute effect of some chlorinated hydrocarbon insecticides on the acetylcholine content of rat brain. V. V. St. Omer and D. J. Ecobichon, 79.
Elliott, K. A. C.
Effect of ethanol on entry of some substances into the brains of rats. C. A. Leslie, Z. Gottesfeld, and K. A. C. Elliott, 833.
Faiman, C.
Report of the Medical Research Council Committee on human pituitary radioimmunoassay kits for human follicle stimulating hormone and luteinizing hormone. C. Faiman and B. Shome, 685.
Fakouhi, T. A.
Perfusion of the anterior septal artery in the canine heart. A. K. Amir-Jahed and T. A. Fakouhi, 483.
Falchetto, S.
The action of carnitines on cortical neurons. S. Falchetto, G. Kato, and L. Provini, 1.
Fedelesova, M.
Biochemical basis of heart function. IV. Energy metabolism and calcium transport in hearts of vitamin E deficient rats. M. Fedelesova, P. V. Sulakhe, J. C. Yates, and N. S. Dhalla, 909.
Feltz, P.
γ-Aminobutyric acid and a caudato-nigral inhibition. P. Feltz, 1113.
Fessler, A.
Factors affecting the inactivation of insulin-^{125}I by rat adipose tissue. A. Fessler, B. Rubenstein, D. Rubinstein, and J. C. Beck, 457.
Firth, D. R.
Electrical resistance and volume flow in glass microelectrodes. D. R. Firth and L. J. DeFelice, 436.
Fischer, J. D.
The effect of oral oxyphenbutazone (Tandearil) on tumor growth and the level of the seromucoid fraction in rats bearing Walker 256 carcinoma. R. A. L. Macbeth and J. D. Fischer, 1071.
Fisher, H. D.
Sea water drinking and water flux in starved and in fed Harbor seals, *Phoca vitulina*. F. Depocas, J. S. Hart, and H. D. Fisher, 53.
Flattery, K. V.
Thyroid status in relation to catecholamines in cold and warm environment. E. A. Sellers, K. V. Flattery, A. Shum, and G. E. Johnson, 268.

Foulks, J. G.
Effect of external potassium concentration on caffeine contractures in frog toe muscle. J. G. Foulks, F. A. Perry, and H. D. Sanders, 879.
Augmentation of caffeine-contracture tension by twitch-potentiating agents in frog toe muscle. J. G. Foulks, F. A. Perry, and H. D. Sanders, 889.
Fregly, M. J.
Effect of a low bulk diet on water and electrolyte exchange in rats exposed to cold. M. J. Fregly, 959.
Freville, M.
Continuous measurement of variations of P_{CO_2} in peritoneal fluid. P. Harichaux, M. Freville, J. Lienard, J. P. Denoeux, and G. Bonn, 621.
Friedman, S. M.
Maintenance of the ionic composition of the incubated artery. V. Palatý, B. K. Gustafson, and S. M. Friedman, 106.
Friesen, A. J. D.
The effect of preganglionic stimulation on the acetylcholine and choline content of a sympathetic ganglion. A. J. D. Friesen and J. C. Khatter, 375.
Gagné, S.
Résistance électrique de la paroi d'une microélectrode. J. P. Caillé et S. Gagné, 783.
Gagnon, F. T.
Inhibition of human platelet aggregation by a dibenzapine compound (GP 44296) and by *N*-(2,6-dichlorophenyl-*o*-aminophenylacetic acid (GP 45840). F. Jobin and F. T. Gagnon, 479.
Galeano, C.
Response of caudal photoreceptor of crayfish to continuous and intermittent photic stimulation. C. Galeano and K. L. Chow, 699.
Gallie, B. L.
Measurement of cardiac output in rats by ^{125}I dilution. R. T. Cotton, F. L. Mugashe, B. L. Gallie, H. Chan, I. H. Koven, and W. R. Drucker, 1019.
Garay, G. L.
Immunoreactive rat growth hormone: physiological variations in serum and urine. G. L. Garay, J. M. Martin, and H. K. Åkerblom, 727.
Garcia, M.
An eserine-like action of chloroquine. M. Garcia, C. Miyares, and F. Sainz, 492.
Erratum: An eserine-like action of chloroquine. M. Garcia, C. Miyares, and F. Sainz, 1007.
Blockade of the antiadrenergic action of bretylium by an aqueous extract of the leaves of *Rhoeo spathacea*. M. Garcia, C. Miyares, E. Menendez, and F. Sainz, 1106.
García-Rodríguez, M.
Biphasic response of the transmurally stimulated rat duodenum. M. García-Rodríguez, E. Menéndez-Cepero, F. Saínz-Guevara, and J. M.-Reyes Díaz, 370.
Gauthier, P.
Effects of cardiac glycosides injected into the atrioventricular node artery of the dog. R. A. Nadeau, A. K. Amir-Jahed, P. Gauthier, and G. A. Porlier, 113.
Gauthier, R.
Site of the action of angiotensin and other vasoconstrictors on the kidney. D. Regoli and R. Gauthier, 608.
Gayton, D. C.
Transmembrane K^+ and Cl^- activity gradients for the muscle fiber of the giant barnacle. J. A. M. Hinke and D. C. Gayton, 312.
Evidence for the heterogeneous distribution of chloride in the barnacle muscle. D. C. Gayton and J. A. M. Hinke, 323.
Genest, J.
The renin–angiotensin system in newborn dogs. P. Granger, J. M. Rojo-Ortega, S. Casado Pérez, R. Boucher, and J. Genest, 134.
Gerber, G. J.
Factors affecting behavior maintained by response-contingent intravenous infusions of amphetamine in squirrel monkeys. R. Stretch, G. J. Gerber, and S. M. Wood, 581.
Goldman, J.
Biochemical basis of heart function. III. Influence of isoproterenol on the norepinephrine stores in the rat heart. N. S. Dhalla, V. Bakasubramanian, and J. Goldman, 302.
Gottesfeld, Z.
Penetration of circulating GABA into long-isolated cortical slabs. Z. Gottesfeld, K. Krnjević, and R. J. Reiffenstein, 70.

Effect of ethanol on entry of some substances into the brains of rats. C. A. Leslie, Z. Gottesfeld, and K. A. C. Elliott, 833.

Grad, B.
Plasma corticosterone, hemoglobin, creatinine, and blood urea nitrogen levels, and urinary corticosteroid amounts in mice made hypothermic by exposure to −10 °C. B. Grad and F. Rafizadeh, 657.

Granger, P.
The renin–angiotensin system in newborn dogs. P. Granger, J. M. Rojo-Ortega, S. Casado Pérez, R. Boucher, and J. Genest, 134.

Grant, D. L.
Multigeneration studies on the effect of dietary DDT on the vitamin A status of the weanling rat. W. E. J. Phillips, G. Hatina, D. C. Villeneuve, and D. L. Grant, 382.

Grant, M. A.
Uptake of tritium-labelled testosterone by rat femur: effect of disuse and age. M. A. Grant, H. A. Lindsay, and J. A. Thomas, 717.

Grillo, S. A.
The effect of hippocampus on distraction. S. A. Grillo, 873.

Groom, A. C.
The distribution of red cells in the spleen. S. H. Song and A. C. Groom, 734.
Physical characteristics of red cells collected from the spleen. A. C. Groom, S. H. Song, P. Lim, and B. Campling, 1092.

Gustafson, B. K.
Maintenance of the ionic composition of the incubated artery. V. Palatý, B. K. Gustafson, and S. M. Friedman, 106.

Hahn, P.
Effects of single cortisone injections on brown adipose tissue of developing rats. J. Skala and P. Hahn, 501.
Carnitine enhances the effect of norepinephrine on oxygen consumption in rats and mice. P. Hahn, J. Skala, and P. Davies, 853.

Hainsworth, F. R.
Evaporative cooling in the rat: differences between salivary glands as thermoregulatory effectors. F. R. Hainsworth and E. M. Stricker, 573.

Haist, R. E.
Respiration and insulin synthesis in the islets of Langerhans. B. J. Lin and R. E. Haist, 559.

Hall, C. E.
Dose–effect relationship in desoxycorticosterone hypertension: reduced sensitivity in adrenalectomized rats and its possible significance to the etiology of adrenal-regeneration hypertension. C. E. Hall and S. Ayachi, 139.

Hamilton, L. H.
Effects of propranolol on several physiological responses during orthostatic and exercise stress in healthy male subjects. M. G. Maksud, F. E. Tristani, K. D. Coutts, J. J. Barboriak, and L. H. Hamilton, 867.

Hamilton, R. M. G.
A simple quantitative procedure for the partition of free and esterified fatty acids from fetal lipids, R. M. G. Hamilton and B. E. McDonald, 487.

Harichaux, P.
Continuous measurement of variations of P_{CO_2} in peritoneal fluid. P. Harichaux, M. Freville, J. Lienard, J. P. Denoeux, and G. Bonn, 621.

Hart, J. S.
Sea water drinking and water flux in starved and in fed Harbor seals, *Phoca vitulina*. F. Depocas, J. S. Hart, and H. D. Fisher, 53.

Hatina, G.
Multigeneration studies on the effect of dietary DDT on the vitamin A status of the weanling rat. W. E. J. Phillips, G. Hatina, D. C. Villeneuve, and D. L. Grant, 382.

Hayman, G. A.
The pre- to post-capillary resistance ratio in the human forearm. P. D. Newberry, G. A. Hayman, and S. Parsons, 758.

Héroux, O.
Caloric uptake and cold resistance in cold-acclimated rats fed commercial chow or semipurified diet. R. Deslauriers, J. Zoami, R. S. McCullough, and O. Héroux, 707.

Hill, D. C.
Dietary DL-methionine and rat liver arginase activity. D. K. Acheampong-Mensah and D. C. Hill, 84.

Effect of dietary rapeseed meal on the serum proteins of rats. M. T. Lo and D. C. Hill, 1100.

Himms-Hagen, J.

Inhibition of oxytetracycline of the development of the enhanced response to noradrenaline in cold-acclimated rats: a new approach to the study of non-shivering thermogenesis. J. Himms-Hagen, 545.

Decreased half-life of some mitochondrial proteins in skeletal muscle and brown adipose tissue of cold-acclimated rats. L. Bukowiecki and J. Himms-Hagen, 1015.

Hinke, J. A. M.

Transmembrane K^+ and Cl^- activity gradients for the muscle fiber of the giant barnacle. J. A. M. Hinke and D. C. Gayton, 312.

Evidence for the heterogeneous distribution of chloride in the barnacle muscle. D. C. Gayton and J. A. M. Hinke, 323.

Single influx rate for $^{42}K^+$ in the single fiber of the barnacle. R. D. Allen and J. A. M. Hinke, 624.

The extracellular space of the single fiber from the giant barnacle. M. L. Bridgen, A. W. Spira, and J. A. M. Hinke, 801.

Na^+–Li^+ exchange in single muscle fibers of the giant barnacle. R. D. Allen and J. A. M. Hinke, 862.

Hoeschen, R. J.

The effect of ouabain on substrate metabolism in the isolated perfused rat heart. R. J. Hoeschen, 412.

Horwood, D. M.

Fluid and electrolyte shifts relating cardiac hypertrophy with normal growth. D. M. Horwood and M. Beznak, 951.

Hosein, E. A.

The metabolic fate of pentylenetetrazol in the rat. G. K. W. Ko and E. A. Hosein, 356.

Hotta, N.

Inhibitory effect of beta-hydroxybutyrate on lipolysis stimulated by dihydroergotamine and growth hormone *in vitro*. N. Hotta, A. Sirek, and O. V. Sirek, 87.

Igić, R.

The effect of oxotremorine on the "free" and "bound" brain acetylcholine concentrations and motor activity in beri-beri pigeons. R. Igić and P. Stern, 985.

Inoue, F.

Conduction delay from Purkinje Fiber to ventricular muscle studied with extracellular microelectrodes. A. Kamiyama and F. Inoue, 678.

Issekutz, A.

The effect of nicotinic acid, 5-methylpyrazole-3-carboxylic acid (U-19425), and dibutyryl cyclic AMP on renal gluconeogenesis. A. Issekutz, 102.

Jacks, B.

Excitation and prolonged waking produced by catecholamines injected into the ventricular system of cats. J. P. Cordeau, J. de Champlain, and B. Jacks, 627.

Jobin, F.

Inhibition of human platelet aggregation by a dibenzazepine compound (GP 44296) and by *N*-(2,6-dichlorophenyl)-*o*-aminophenylacetic acid (GP 45840). F. Jobin and F. T. Gagnon, 479.

Johnson, D. D.

The effect of lidocaine on twitch potentiation and repetitive neural activity produced by soman and neostigmine. H. Lowndes and D. D. Johnson, 464.

Johnson, G. E.

Thyroid status in relation to catecholamines in cold and warm environment. E. A. Sellers, K. V. Flattery, A. Shun, and G. E. Johnson, 268.

Jomain, M.-J.

Lactate turnover and oxidation in normal and adrenal-demedullated dogs during cold exposure. Y. Minaire, A. Pernod, M.-J. Jomain, and M. Mottaz, 1063.

Just, G.

Comparison of dihydrotachysterol and calciferol. M. Kaye, G. Just, and M. Wilson, 857.

Kalsner, S.

Responses to noradrenaline and potassium, and disposition of noradrenaline in aortic strips of desoxycorticosterone acetate – NaCl hypertensive rabbits. S. Kalsner, E. Ayitey-Smith, and G. M. Ling, 666.

Kamiyama, A.

Conduction delay from Purkinje Fiber to ventricular muscle studied with extracellular microelectrodes. A. Kamiyama and F. Inoue, 678.

Kato, G.
The action of carnitines on cortical neurons. S. Falchetto, G. Kato, and L. Provini, 1.
Kaye, M.
Comparison of dihydrotachysterol and calciferol. M. Kaye, G. Just, and M. Wilson, 857.
Khatter, J. C.
The effect of preganglionic stimulation on the acetylcholine and choline content of a sympathetic ganglion. A. J. D. Friesen and J. C. Khatter, 375.
Knowles, C. O.
Comparative metabolism of chlorobenzilate, chloropropylate, and bromopropylate acaricides by rat hepatic enzymes. C. O. Knowles and S. Ahmad, 590.
Ko, G. K. W.
The metabolic fate of pentylenetetrazol in the rat. G. K. W. Ko and E. A. Hosein, 356.
Kobayashi, H.
Electroretinographic determination of spectral sensitivity in albino and pigmented brook trout (*Salvelinus fontinalis*, Mitchill) H. Kobayashi and M. A. Ali, 1030.
Koheil, A.
Effect of pentagastrin on the utilization of ^{3}H-histidine for histamine formation by the stomach of the rat. K. Kowalewski, A. Koheil, and J. C. Russell, 967.
Kovacs, K.
Effect of aniline on plasma corticosterone in rats. S. Toth, E. Yaghiayan, and K. Kovacs, 433.
Koven, I. H.
Measurement of cardiac output in rats by ^{125}I dilution. R. T. Cotton, F. L. Mugashe, B. L. Gallie, H. Chan, I. H. Koven, and W. R. Drucker, 1019.
Kowalewski, K.
Effect of pentagastrin on the utilization of ^{3}H-histidine for histamine formation by the stomach of the rat. K. Kowalewski, A. Koheil, and J. C. Russell, 967.
Kraicer, J.
Circulating adrenocorticotropin (ACTH) as a controlled variable in the regulation of ACTH secretion. J. Kraicer and R. G. Conrad, 744.
Duration of action of two "long-acting" adrenocorticotropins preparations in the rat. J. Kraicer and R. G. Conrad, 774.
Krnjević, K.
Penetration of circulating GABA into long-isolated cortical slabs. Z. Gottesfeld, K. Krnjević, and R. J. Reiffenstein, 70.
Kuehn, L. A.
Effect of oxygen on tissue temperature gradients in the African guinea hog. S. D. Livingstone, L. A. Kuehn, and E. D. L. Topliff, 366.
Lahue, R.
Supraesophageal ganglia influences on *Limulus* heart rhythm: confirmatory evidence. W. C. Corning, R. Von Burg, and R. Lahue, 387.
Lamarre, Y.
Neurophysiological studies of harmaline-induced tremor in the cat. Y. Lamarre and L.-A. Mercier, 1049.
LeBlanc, J.
The sympathetic nervous system in short-term adaptation to cold. J. LeBlanc, C. Roberge, J. Vallière, and G. Oakson, 96.
Ledsome, J. R.
The effects of changes in the rate of infusion of vaspressin in anesthetized dogs. J. M. Mason and J. R. Ledsome, 933.
Leslie, C. A.
Effect of ethanol on entry of some substances into the brains of rats. C. A. Leslie, Z. Gottesfeld, and K. A. C. Elliott, 833.
Liddy, P.
Collagen metabolism in bone and carrageenin granuloma by sulfate-deprived and sulfate-supplemented rats. R. G. Brown and E. P. Liddy, 1008.
Lienard, J.
Continuous measurement of variations of P_{CO_2} in peritoneal fluid. P. Harichaux, M. Freville, J. Lienard, J. P. Denoeux, and G. Bonn, 621.
Lim, P.
Physical characteristics of red cells collected from the spleen. A. C. Groom, S. H. Song, P. Lim, and B. Campling, 1092.
Lin, B. J.
Respiration and insulin synthesis in the islets of Langerhans. B. J. Lin and R. E. Haist, 559.

Lind, J. F.
Regional differences in rates of insorption of sodium and water from the human large intestine. G. J. Devroede, S. F. Phillips, C. F. Code, and J. F. Lind, 1023.
Ling, G. M.
Metabolic control mechanisms in mammalian systems. XIII. Thyroid hormone control of α-glycerophosphate dehydrogenase activity in rat cerebral cortex and cerebellum. W. S. Schwark, R. L. Singhal, and G. M. Ling, 598.
Responses to noradrenaline and potassium, and disposition of noradrenaline in aortic strips of desoxycorticosterone acetate – NaCl hypertensive rabbits. S. Kalsner, E. Ayitey-Smith, and G. M. Ling, 666.
Streptozotocin-induced diabetes and regulation of hepatic glucose metabolism. R. L. Singhal, M. R. Parūlekar, and G. M. Ling, 1005.
Lindsay, H. A.
Uptake of tritium-labelled testosterone by rat femur: effect of disuse and age. M. A. Grant, H. A. Lindsay, and J. A. Thomas, 717.
Lioy, F.
Lactate and pyruvate levels in brain and skeletal muscle during hyperthermia in dogs. R. B. Dunn and F. Lioy, 520.
Livingstone, S. D.
Effect of oxygen on tissue temperature gradients in the African guinea hog. S. D. Livingstone, L. A. Kuehn, and E. D. L. Topliff, 366.
Lo, M. T.
Effect of dietary rapeseed meal on the serum proteins of rats. M. T. Lo and D. C. Hill, 1100.
Lowndes, H.
The effect of lidocaine on twitch potentiation and repetitive neural activity produced by soman and neostigmine. H. Lowndes and D. D. Johnson, 464.
Macbeth, R. A. L.
The effect of oral oxyphenbutazone (Tandearil) on tumor growth and the level of the seromucoid fraction in rats bearing Walker 256 carcinoma. R. A. L. Macbeth and J. D. Fischer, 1071.
Maksud, M. G.
Effects of propranolol on several physiological responses during orthostatic and exercise stress in healthy male subjects. M. G. Maksud, F. E. Tristani, K. D. Coutts, J. J. Barboriak, and L. H. Hamilton, 867.
Malaisse, W. J.
Insulinotropic effect and possible mode of action of a new potent sulfonylurea (BS-4231). G. R. Brisson and W. J. Malaisse, 536.
Marchand, C.
Effect of splenectomy on the activity of drug-metabolizing enzymes in the liver of rats. J. Brodeur and C. Marchand, 161.
Martin, J. M.
Immunoreactive rat growth hormone: physiological variations in serum and urine. G. L. Garay, J. M. Martin, and H. K. Åkerblom, 727.
Martin, R. R.
The effect of added external resistance on regional pulmonary filling and emptying sequences R. R. Martin, J. E. Wilson, W. R. D. Ross, and N. R. Anthonisen, 406.
Mason, J. M.
The effects of changes in the rate of infusion of vasopressin in anesthetized dogs. J. M. Mason and J. R. Ledsome, 933.
Masson, G. M. C.
Effects of sex hormones on the renal pressor system. A. Nasjletti, M. Matsunaga, and G. M. C. Masson, 292.
Hepatic origin of renin substrate. A. Nasjletti and G. M. C. Masson, 931.
Mathieu, P. A.
Characteristics of pacemaker oscillations in Aplysia neurons. P. A. Mathieu and F. A. Roberge, 787.
Matsunaga, M.
Effects of sex hormones on the renal pressor system. A. Nasjletti, M. Matsunaga, and G. M. C. Masson, 292.
McAlpine, V.
Changes in the electrophoretic patterns of euglobulin fractions following activation of the fibrinolytic system by exercise. V. McAlpine, S. Milojevic, and F. C. Monkhouse, 672.

McCullough, R. S.
Caloric uptake and cold resistance in cold-acclimated rats fed commercial chow or semi-purified diet. R. Deslauriers, J. Zoami, R. S. McCullough, and O. Héroux, 707.
McDonald, B. E.
Weight gain, protein utilization, and liver histochemistry of rats fed low- and high-thioglucoside-content rapeseed meals. S. L. Oliver, B. E. McDonald, and T. Opuszyńska, 448.
A simple quantitative procedure for the partition of and esterified fatty acids from fecal lipids. R. M. Hamilton and B. E. McDonald, 487.
Mehta, J. A.
The effect of vitamin A deficiency in rabbits on the elastic properties of the lung and thoracic aorta. J. S. Saksena, J. A. Mehta, and A. Naimark, 127.
Melech, E.
The effect of sonic vibration on isolated human iliac arteries. M. R. Roach and E. Melech, 288.
Menendez, E.
Blockade of the antiadrenergic action of bretylium by an aqueous extract of the leaves of *Rhoeo spathacea*. M. Garcia, C. Miyares, E. Menendez, and F. Sains, 1106.
Menéndez-Cepero, E.
Biphasic response of the transmurally stimulated rat duodenum. M. García-Rodríguez, E. Menéndez-Cepero, F. Saínz-Guevara, and J. M.-Reyes Díaz, 370.
Mercer, P. F.
Effects of bilateral vagotomy on renal function in the rat. P. F. Mercer, 420.
Mercier, L.-A.
Neurophysiological studies of harmaline-induced tremor in the cat. Y. Lamarre and L.-A. Mercier, 1049.
Mettrick, D. F.
Hymenolepis diminuta: the microbial fauna, nutritional gradients, and physicochemical characteristics of the small intestine of uninfected and parasitized rats. D. F. Mettrick, 972.
Metz, B.
Correlation between the electrical activity and acetylcholine release from the cerebral cortex and medulla during hypercapnia. B. Metz, 331.
Meyer, A. A.
Cold-induced vasodilation in the sheep. A. A. Meyer and A. J. F. Webster, 901.
Miles, T. S.
The oral absorption of water. T. S. Miles and P. G. Dellow, 796.
Milojevic, S.
Changes in the electrophoretic patterns of euglobulin fractions following activation of the fibrinolytic system by exercise. V. McAlpine, S. Milojevic, and F. C. Monkhouse, 672.
Minaire, Y.
Lactate turnover and oxidation in normal and adrenal-demedullated dogs during cold exposure. Y. Minaire, A. Pernod, M.-J. Jomain, and M. Mottaz, 1063.
Minkin, C.
Inhibitory effect of salmon and other calcitonins on calcium release from mouse bone *in vitro*. C. Minkin, J. Reynolds, and D. H. Copp, 263.
Miyares, C.
An eserine-like action of chloroquine. M. Garcia, C. Miyares, and F. Sains, 492.
Erratum: An eserine-like action of chloroquine. M. Garcia, C. Miyares, and F. Sainz, 1007.
Blockade of the antiadrenergic action of bretylium by an aqueous extract of the leaves of *Rhoeo spathacea*. M. Garcia, C. Miyares, E. Menendez, and F. Sainz, 1106.
Monkhouse, F. C.
Changes in the electrophoretic patterns of euglobulin fractions following activation of the fibrinolytic system by exercise. V. McAlpine, S. Milojevic, and F. C. Monkhouse, 672.
Montemurro, D. G.
Inhibition of hypothalamic obesity in the mouse with diethylstilbestrol, D. G. Montemurro, 554.
Morgan, C. D.
Rheological properties of blood from diabetic Wistar rats. W. Zingg, R. B. Wilson, C. D. Morgan, and D. E. Anderson, 927.
Morrow, E.
Effect of isoproterenol on brown and white fat of the adult rat. D. M. Derry, J. Ranson, and E. Morrow, 8.

Mottaz, M.
Lactate turnover and oxidation in normal and adrenal-demedullated dogs during cold exposure. Y. Minaire, A. Pernod, M.-J. Jomain, and M. Mottaz, 1063.
Motzok, I.
Effect of dietary calcium, phosphorus, and vitamin D_3 on alkaline phosphatase activity of intestinal mucosa of chicks. I. Motzok, G. M. Ritcey, and M. I. Davies, 338.
Mugashe, F. L.
Measurement of cardiac output in rats by ^{125}I dilution. R. T. Cotton, F. L. Mugashe, B. L. Gallie, H. Chan, I. H. Koven, and W. R. Drucker, 1019.
Mutt, V.
The further purification of motilin, a gastric motor activity stimulating polypeptide from the mucosa of the small intestine of hogs. J. C. Brown, V. Mutt, and J. R. Dryburgh, 399.
Myles, W. S.
The excretion of catecholamines in rats during acute and chronic exposure to altitude. W. S. Myles and A. J. Ducker, 721.
Nadeau, R. A.
Supersensitivity of the isolated rat heart after chemical sympathectomy with 6-hydroxydopamine. R. A. Nadeau, J. de Champlain, and G. M. Tremblay, 36.
Effects of cardiac glycosides injected into the dog. R. A. Nadeau, A. K. Amir-Jahed, P. Gauthier, and G. A. Porlier, 113.
Naimark, A.
The effect of vitamin A deficiency in rabbits on the elastic properties of the lung and thoracic aorta. J. S. Saksena, J. A. Mehta, and A. Naimark, 127.
Naquet, R.
Action de l'acide dipropylacetique chez le *Papio papio* photosensible, G. Patry and R. Naquet, 568.
Nasjletti, A.
Effects of sex hormones on the renal pressor system. A. Nasjletti, M. Matsunaga, and G. M. C. Masson, 292.
Hepatic origin of renin substrate. A. Nasjletti and G. M. C. Masson, 931.
Newberry, P. D.
The pre- to post-capillary resistance ratio in the human forearm. P. D. Newberry, G. A. Hayman, and S. Parsons, 758.
Nickerson, M.
Studies on hemorrhage hypotension in domestic fowl. D. G. Wyse and M. Nickerson, 919.
Novakova, A.
Effect of posterior hypothalamic lesions in renal function in the rat. A. Novakova and J. A. F. Stevenson, 941.
Oakson, G.
The sympathetic nervous system in short-lived adaptation to cold. J. LeBlanc, C. Roberge, J. Vallière, and G. Oakson, 96.
Ogilvie, R. I.
Comparative effects of ethacrynic acid, furosemide, and diazoxide in the perfused dog hindlimb. R. I. Ogilvie and E. Schlieper, 1038.
Oliver, S. L.
Weight gain, protein utilization, and liver histochemistry of rats fed low- and high-thioglucoside-content rapeseed meals. S. L. Oliver, B. E. McDonald, and T. Opuszyńska, 448.
Opuszyńska, T.
Weight gain, protein utilization, and liver histochemistry of rats fed low- and high-thioglucoside-content rapeseed meals. S. L. Oliver, B. E. McDonald, and T. Opuszyńska, 448.
Ošťádal, B.
The influence of muscular work on the capillary density in the heart and skeletal muscle of pigeon (*Columbia livia dom.*). K. Rakušan, B. Ošťádal, and M. Wachtlová, 167.
Palaïc, D.
Effect of angiotensin on noradrenaline-^3H accumulation and synthesis *in vivo*. D. Palaïc, 495.
Palatý, V.
Maintenance of the ionic composition of the incubated artery. V. Palatý, B. K. Gustafson, and S. M. Friedman, 106.
Parisii, I. M.
Resolution of two components of the upstroke of the action potential in atrioventricular fibers of the rabbit heart. E. Ruiz de Ceretti, A. P. Zumino, and I. M. Parisii, 642.

Parsons, S.
The pre- to post-capillary resistance ratio in the human forearm. P. D. Newberry, G. A. Hayman, and S. Parsons, 758.
Parūlekar, M. R.
Streptozotocin-induced diabetes and regulation of hepatic glucose metabolism. R. L. Singhal, M. R. Parūlekar, and G. M. Ling, 1005.
Patry, G.
Action de l'acide dipropylacetique chez le *Papio papio* photosensible. G. Patry and R. Naquet, 568.
Peesker, S. J.
Sequential lowering and raising of brain γ-aminobutyric acid levels by isonicotinic acid hydrazide. J. D. Wood and S. J. Peesker, 780.
Pekas, J. C.
Uptake and transport of pesticidal carbamates by everted sacs of rat small intestine. J. C. Pekas, 14.
Pernod, A.
Lactate turnover and oxidation in normal and adrenal-demedullated dogs during cold exposure. Y. Minaire, A. Pernod, M.-J. Jomain, and M. Mottaz, 1063.
Perris, A. D.
Calcium homeostasis and erythropoietic control in the rat. A. D. Perris and J. F. Whitfield, 22.
Perry, F. A.
Effect of external potassium concentration on caffeine contractures in frog toe muscle. J. G. Foulks, F. A. Perry, and H. D. Sanders, 879.
Augmentation of caffeine-contracture tension by twitch-potentiating agents in frog toe muscle. J. G. Foulks, F. A. Perry, and H. D. Sanders, 889.
Peterson, R. A.
The effect of cold and prostaglandin E_1 on lipid mobilization in the chicken. W. D. Wagner, R. A. Peterson, and R. J. Cenedella, 394.
Phillips, S. F.
Regional differences in rates of insorption of sodium and water from the human large intestine. G. J. Devroede, S. F. Phillips, C. F. Code, and J. F. Lind, 1023.
Phillips, W. E. J.
Multigeneration studies on the effect of dietary DDT on the vitamin A status of the weanling rat. W. E. J. Phillips, G. Hatina, D. C. Villeneuve, and D. L. Grant, 382.
The effect of acute ethanol administration on parathion toxicity and *in vitro* parathion degradation in the rat. D. C. Villeneuve and W. E. J. Phillips, 481.
Plaa, G. L.
Biochemical and morphological parameters of taurolithocholate-induced cholestasis. B. G. Priestly, M. G. Côté, and G. L. Plaa, 1078.
Polacek, I.
Accumulation of adenosine 3′,5′-monophosphate and relaxation in the rat uterus *in vitro*. I. Polacek, J. Bolan, and E. E. Daniel, 999.
Effect of α- and β-adrenergic stimulation on the uterine motility and adenosine 3′,5′-monophosphate level. I. V. Polacek and E. E. Daniel, 988.
Pollard, A. A.
Significance of catecholamine-induced ganglionic blockade and of reflex inhibition of adrenergic discharge at a peripheral locus as mechanisms producing reflex vasodilatation. A. A. Pollard and L. Beck, 688.
Porlier, G. A.
Effects of cardiac glycosides injection into the atrioventricular node artery of the dog. R. A. Nadeau, A. K. Amir-Jahed, P. Gauthier, and G. A. Porlier, 113.
Priestly, B. G.
Biochemical and morphological parameters of taurolithocholate-induced cholestasis. B. G. Priestly, M. G. Côté, and G. L. Plaa, 1078.
Provini, L.
The action of carnitines on cortical neurons. S. Falchetto, G. Kato, and L. Provini, 1.
Rafizadeh, F.
Plasma corticosterone, hemoglobin, creatinine, and blood urea nitrogen levels, and urinary corticosteroid amounts in mice made hypothermic by exposure to −10 °C. B. Grad and F. Rafizadeh, 657.
Rakušan, K.
The influence of muscular work on the capillary density in the heart and skeletal muscle of

pigeon (*Columbia livia dom.*). K. Rakušan, B. Ošťádal, and M. Wachtlová, 167.
Vascular capacity and hematocrit in experimental cardiomegaly due to aortic constriction in rats. K. Rakušan, 819.

Ranson, J.
Effect of isoproterenol on brown and white fat of the adult rat. D. M. Derry, J. Ranson, and E. Morrow. 8.

Regoli, D.
Site of action of angiotensin and other vasoconstrictors on the kidney. D. Regoli and R. Gauthier, 608.

Reiffenstein, R. J.
Penetration of circulating GABA into long-isolated cortical slabs. Z. Gottesfeld, K. Krnjević, and R. J. Reiffenstein, 70.

Reyes Díaz, J. M.
Biphasic response of the transmurally stimulated rat duodenum. M. García-Rodríguez, E. Menéndez-Cepero, F. Saínz-Guevara, and J. M.-Reyes Díaz, 370.

Reynolds, J. J.
Inhibitory effect of salmon and other calcitonins on calcium release from mouse bone *in vitro*. C. Minkin, J. J. Reynolds, and D. H. Copp, 263.

Rhodes, H. J.
The action of diazoxide on isolated vascular smooth muscle electrophysiology and contraction. H. J. Rhodes and M. C. Sutter, 276.
Vasomotion and contraction in the perfused mesenteric–portal vein: effect of drugs and altered perfusion pressure. H. J. Rhodes and M. C. Sutter, 615.

Ritcey, G. M.
Effect of dietary calcium, phosphorus, and vitamin D_3 on alkaline phosphatase activity of intestinal mucosa of chicks. I. Motzok, G. M. Ritcey, and M. I. Davies, 338.

Roach, M. R.
The effect of sonic vibration on isolated human iliac arteries. M. R. Roach and E. Melech, 288.

Roberge, C.
The sympathetic nervous system in short-term adaptation to cold. J. LeBlanc, C. Roberge, J. Vallière, and G. Oakson, 96.

Roberge, F. A.
Characteristics of pacemaker oscillations in Aplysia neurons. P. A. Mathieu and F. A. Roberge, 787.

Robinson, K.
Effects of inhibitors of active transport on ^{22}Na and ^{42}K movements and on nucleotide levels in rat uteri at 25 °C. E. E. Daniel and K. Robinson, 178.
Effects of inhibitors of metabolism on adenine nucleotides and on ^{22}Na and ^{42}K and net movements in rat uteri, at 25 °C. E. E. Daniel and K. Robinson, 205.
The effect of temperature on sodium movements in rat uteri and a model for control of their ion content. E. E. Daniel and K. Robinson, 240.

Rojo-Ortega, J. M.
The renin-angiotensin system in newborn dogs. P. Granger, J. M. Rojo-Ortega, S. Casado Pérez, R. Boucher, and J. Genest, 134.
The effect of added external resistance on regional pulmonary filling and emptying sequences. R. R. Martin, J. E. Wilson, W. R. D. Ross, and N. R. Anthonisen, 406.

Rowlands, S.
Erythrocyte flow in tubes of capillary size. S. Rowlands and L. Skibo, 373.

Rubenstein, B.
Factors affecting the inactivation of insulin-^{125}I by rat adipose tissue. A. Fessler, B. Rubenstein, D. Rubinstein, and J. C. Beck, 457.

Rubinstein, D.
Factors affecting the inactivation of insulin-^{125}I by rat adipose tissue. A. Fessler, B. Rubenstein, D. Rubinstein, and J. C. Beck, 457.

Ruiz de Ceretti, E.
Resolution of two components in the upstroke of the action potential in atrioventricular fibers of the rabbit heart. E. Ruiz de Ceretti, A. P. Zumino, and I. M. Parisii, 642.

Russell, J. C.
Effect of pentagastrin on the utilization of ^{3}H-histidine for histamine formation by the stomach of the rat. K. Kowalewski, A. Koheil, and J. C. Russell, 967.

St-Laurent, J.
Effect of trimethadione on the self-stimulation phenomenon. J. St-Laurent, 850.

St. Omer, V. V.
The acute effect of some chlorinated hydrocarbon insecticides on the acetylcholine content of rat brain. V. V. St. Omer and D. J. Ecobichon, 79.
Sainz, F.
An eserine-like action of chloroquine. M. Garcia, C. Miyares, and F. Sainz, 492.
Erratum: An eserine-like action of chloroquine. M. Garcia, C. Miyares, and F. Sainz, 1007.
Blockade of the antiadrenergic action of bretylium by an aqueous extract of the leaves of *Rhoeo spathacea*. M. Garcia, C. Miyares, E. Menendez, and F. Sainz, 1106.
Saínz-Guevara, F.
Biphasic response of the transmurally stimulated rat duodenum. M. García-Rodríguez, E. Menéndez-Cepero, F. Saínz-Guevara, and J. M.-Reyes Díaz, 370.
Saksena, J. S.
The effect of vitamin A deficiency in rabbits on the elastic properties of the lung and thoracic aorta. J. S. Saksena, J. A. Mehta, and A. Naimark, 127.
Sanders, H. D.
Effect of external potassium concentration on caffeine contractures in frog toe muscle. J. G. Foulks, A. Perry, and H. D. Sanders, 879.
Augmentation of caffeine-contracture tension by twitch-potentiating agents in frog toe muscle. J. G. Foulks, F. A. Perry, and H. D. Sanders, 889.
Schanne, O. F.
Measurement of input and impedance and cytoplasmic resistivity with a single microelectrode. O. F. Schanne and E. R. P. de Ceretti, 713.
Schlieper, E.
Comparative effects of ethacrynic acid, furosemide, and diazoxide in the perfused dog hindlimb. R. I. Ogilvie and E. Schlieper, 1038.
Schwark, W. S.
Metabolic control mechanisms in mammalian systems. XIII. Thyroid hormone control of α-glycerophosphate dehydrogenase activity in rat cerebral cortex and cerebellum. W. S. Schwark, R. L. Singhal, and G. M. Ling, 598.
Sellers, E. A.
Thyroid status in relation to catecholamines in cold and warm environment. E. A. Sellers, K. V. Flattery, A Shum, and G. E. Johnson, 268.
Sharp, B. A.
Tissue selenium concentrations in sheep fed a purified diet. J. G. Buchanan-Smith, B. A. Sharp, and A. D. Tillman, 619.
Shaw, W. H.
A study of the renal excretion of calcium by the production of a constant level of hypercalcemia in normal and abnormal human subjects. W. H. Shaw, 469.
Shome, B.
Report of the Medical Research Council Committee on human pituitary radioimmunoassay kits for human follicle stimulating hormone and luteinizing hormone. C. Faiman and B. Shome, 685.
Shum, A.
Thyroid status in relation to catecholamines in cold and warm environment. E. A. Sellers, K. V. Flattery, A. Shum, and G. E. Johnson, 268.
Singhal, R. L.
Metabolic control mechanisms in mammalian systems. XIII. Thyroid hormone control of α-glycerophosphate dehydrogenase activity in rat cerebral cortex and cerebellum. W. S. Schwark, R. L. Singhal, and G. M. Ling, 598.
Streptozotocin-induced diabetes and regulation of hepatic glucose metabolism. R. L. Singhal, M. R. Parūlekar, and G. M. Ling, 1005.
Sirek, A.
Inhibitory effect of beta-hydroxybutyrate on lipolysis stimulated by dihydroergotamine and growth hormone *in vitro*. N. Hotta, A. Sirek, and O. V. Sirek, 87.
Sirek, O. V.
Inhibitory effect of beta-hydroxybutyrate on lipolysis stimulated by dihydroergotamine and growth hormone *in vitro*. N. Hotta, A. Sirek, and O. V. Sirek, 87.
Skala, J.
Effects of single cortisone injections on brown adipose tissue of developing rats. J. Skala and P. Hahn, 501.
Carnitine enhances the effect of norepinephrine on oxygen consumption in rats and mice. P. Hahn, J. Skala, and P. Davies, 853.
Skibo, L.
Erythrocyte flow in tubes of capillary size. S. Rowlands and L. Skibo, 373.

Solymoss, B.
Effect of spironolactone and ethylestrenol on benzo(*a*)pyrene-hydroxylase (EC 1.14.1.1) and other chemical constituents of hepatic microsomes. B. Solymoss, S. Toth, S. Varga, J. Werringloer, and G. Zsigmond, 841.
Song, S. H.
The distribution of red cells in the spleen. S. H. Song and A. C. Groom, 734.
Physical characteristics of red cells collected from the spleen. A. C. Groom, S. H. Song, P. Lim, and B. Campling, 1092.
Sonnenberg, H.
The renal response to blood volume expansion in the rat: proximal tubular function and urinary excretion. H. Sonnenberg, 525.
Spalding, C. T.
Further evidence for "active" reflex vasodilatation. D. G. Wyse, L. Beck, T. F. Burks, and C. T. Spalding, 147.
Spira, A. W.
The extracellular space of the single fiber from the giant barnacle. M. L. Brigden, A. W. Spira, and J. A. M. Hinke, 801.
Standal, B. R.
Amino acid imbalance and diet preference in the hypothalamic–hyperphagic rat. S. M. Arakawa, B. R. Standal, and J. R. Beaton, 752.
Stern, P.
The effect of oxotremorine on the "free" and "bound" brain acetylcholine concentrations and motor activity in beri-beri pigeons. R. Igić and P. Stern, 985.
Stevenson, J. A. F.
Effect of posterior hypothalamic lesions on renal function in the rat. A. Novakova and J. A. F. Stevenson, 941.
Stretch, R.
Factors affecting behavior maintained by response-contingent intravenous infusions of amphetamine in squirrel monkeys. R. Stretch, G. J. Gerber, and S. M. Wood, 581.
Stricker, E. M.
Evaporative cooling in the rat: differences between salivary glands as thermoregulatory effectors. F. R. Hainsworth and E. M. Stricker, 573.
Sulakhe, P. V.
Biochemical basis of heart function. IV. Energy metabolism and calcium transport in hearts of vitamin E deficient rats. M. Fedelesova, P. V. Sulakhe, J. C. Yates, and N. S. Dhalla, 909.
Sutter, M. C.
The action of diazoxide on isolated vascular smooth muscle electrophysiology and contraction. H. J. Rhodes and M. C. Sutter, 276.
Vasomotion and contraction in the perfused mesenteric–portal vein: effect of drugs and altered perfusion pressure. H. J. Rhodes and M. C. Sutter, 615.
Thomas, J. A.
Uptake of tritium-labelled testosterone by rat femur: effect of disuse and age. M. A. Grant, H. A. Lindsay, and J. A. Thomas, 717.
Tillman, A. D.
Tissue selenium concentrations in sheep fed a purified diet. J. G. Buchanan-Smith, B. A. Sharp, and A. D. Tillman, 619.
Topliff, E. D. L.
Effect of oxygen on tissue temperature gradients in the African guinea hog. S. D. Livingstone, L. A. Kuehn, and E. D. L. Topliff, 366.
Toth, S.
Effect of aniline on plasma corticosterone in rats. S. Toth, E. Yeghiayan, and K. Kovacs, 433.
Effect of spironolactone and ethylestrenol on benzo(*a*)pyrene-hydroxylase (EC 1.14.1.1) and other chemical constituents of hepatic microsomes. B. Solymoss, S. Toth, S. Varga, J. Werringloer, and G. Zsigmond, 841.
Tremblay, G. M.
Supersensitivity of the isolated rat heart after chemical sympathectomy with 6-hydroxydopamine. R. A. Nadeau, J. de Champlain, and G. M. Tremblay, 36.
Tristani, F. E.
Effects of propranolol on several physiological responses during orthostatic and exercise stress in healthy male subjects. M. G. Maksud, F. E. Tristani, K. D. Coutts, J. J. Barboriak, and L. N. Hamilton, 867.

Tuma, D. J.
A method for studying the uptake of creatine by a perfused hind limb preparation. A. J. Barak, H. C. Beckenhauer, and D. J. Tuma, 612.
Vallière, J.
The sympathetic nervous system in short-term adaptation to cold. J. LeBlanc, C. Roberge, J. Vallière, and G. Oakson, 96.
Van Gelder, N. M.
Molecular arrangement for physiological action of glutamic acid and γ-aminobutyric acid. N. M. van Gelder, 513.
Van Netten, C.
The effects of pharmacological agents on the electrical responses of cells of *Nitella flexilis*. P. Belton and C. Van Netten, 824.
Varga, S.
Effect of spironolactone and ethylestrenol on benzo(*a*)pyrenehydroxylase (EC 1.14.1.1) and other chemical constituents of hepatic microsomes. B. Solymoss, S. Toth, S. Varga, J. Werringloer, and G. Zsigmond, 841.
Villeneuve, D. C.
Multigeneration studies on the effect of dietary DDT on the vitamin A status of the weanling rat. W. E. J. Phillips, G. Hatina, D. C. Villeneuve, and D. L. Grant, 382.
The effect of acute ethanol administration on parathion toxicity and *in vitro* parathion degradation in the rat. D. C. Villeneuve and W. E. J. Phillips, 481.
Vittorio, P. V.
The beneficial effects of postirradiation treatment with cobaltous chloride on the development of nuclear damage in thymocytes, erythropoiesis, and the survival of mice. P. V. Vittorio and J. F. Whitfield, 812.
Von Burg, R.
Supraesophageal gangia influences on *Limulus* heart rhythm: confirmatory evidence. W. C. Corning, R. Von Burg, and R. Lahue, 387.
The effects of drugs on *Limulus* cardioregulators. R. Von Burg and W. C. Corning, 1044.
Wachtlová, M.
The influence of muscular work on the capillary density in the heart and skeletal muscle of pigeon (*Columbia livia dom.*). K. Rakušan B. Ošťádal, and M. Wachtlová, 167.
Wagner, W. D.
The effect of cold and prostaglandin E_1 on lipid mobilization in the chicken. W. D. Wagner, R. A. Peterson, and R. J. Cenedella, 394.
Washio, H.
The chloride conductance and its pH sensitivity in insect muscle. H. Washio, 1012.
Webster, A. J. F.
Cold-induced vasodilatation in the sheep. A. A. Meyer and A. J. F. Webster, 901.
Werringloer, J.
Effect of spironolactone and ethylestrenol on benzo(*a*)pyrenehydroxylase (EC 1.14.1.1.) and other chemical constituents of hepatic microsomes. B. Solymoss, S. Toth, S. Varga, J. Werringloer, and G. Zsigmond, 841.
Whitfield, J. F.
Calcium homeostasis and erythropoietic control in the rat. A. D. Perris and J. F. Whitfield, 22.
The beneficial effects of postirradiation treatment with cobaltous chloride on the development of nuclear damage in thymocytes, erythropoiesis, and the survival of mice. P. V. Vittorio and J. F. Whitfield, 812.
Wilson, J. E.
The effect of added external resistance on regional pulmonary filling and emptying sequences. R. R. Martin, J. E. Wilson, W. R. D. Ross, and N. R. Anthonisen, 406.
Wilson, M.
Comparison of dihydrotachysterol and calciferol. M. Kaye, G. Just, and M. Wilson, 857.
Wilson, R. B.
Rheological properties of blood from diabetic Wistar rats. W. Zingg, R. B. Wilson, C. D. Morgan, and D. E. Anderson, 927.
Wood, J. D.
Sequential lowering and raising of brain γ-aminobutyric acid levels by isonicotinic acid hydrazide. J. D. Wood and S. J. Peesker, 780.
Wood, S. M.
Factors affecting behavior maintained by response-contingent intravenous infusions of amphetamine in squirrel monkeys. R. Stretch, G. J. Gerber, and S. M. Wood, 581.

Wyse, D. G.
Further evidence for 'active' reflex vasodilatation. D. G. Wyse, L. Beck, T. F. Burks, and C. T. Spalding, 147.
Studies on hemorrhagic hypotension in domestic fowl. D. G. Wyse and M. Nickerson, 919.
Yates, J. C.
Biochemical basis of heart function. IV. Energy metabolism and calcium transport in hearts of vitamin E deficient rats. M. Fedelesova, P. V. Sulakhe, J. C. Yates, and N. S. Dhalla, 909.
Yeghiayan, E.
Effect of aniline on plasma corticosterone in rats. S. Toth, E. Yeghiayan, and K. Kovacs, 433.
Zingg, W.
Rheological properties of blood from diabetic Wistar rats. W. Zingg, R. B. Wilson, C. D. Morgan, and D. E. Anderson, 927.
Zoami, J.
Caloric uptake and cold resistance in cold-acclimated rats fed commercial chow or semi-purified diet. R. Deslauriers, J. Zoami, R. S. McCullough, and O. Héroux, 707.
Zsigmond, G.
Effect of spironolactone and ethylestrenol on benzo(*a*)pyrene hydroxylase (EC 1.14.1.1) and other chemical constituents of hepatic microsomes. B. Solymoss, S. Toth, S. Varga, J. Werringloer, and G. Zsigmond, 841.
Zumino, A.
Resolution of two components in the upstroke of the action potential in atrioventricular fibers of the rabbit heart. E. Ruiz de Ceretti, A. P. Zumino, and I. M. Parisii, 642.